

National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	Alagappa University Karaikudi	December 2000		Physics
P.G.D.C.A (Correspondence Course)	Alagappa University Karaikudi	December 1996	74.3%	Computer Applications
M.Phil	Alagappa University Karaikudi	June 1995	83.1% Gold Medalist	Physics
M.Sc.	Madurai Kamaraj University, Madurai	April 1994	82.1% Best Student Award & First Rank Holder	Physics
B.Sc	Madurai Kamaraj University, Madurai	April 1992	86.3% Certificate of Proficiency in Electronics	Physics
H.Sc	Board of Higher Secondary Education, Tamil Nadu	March 1989	76.4%	Tamil, English, Maths, Physics, Chemistry, Computer Science
S.S.L.C	Board of secondary Education, Tamil Nadu	March 1987	82%	Tamil, English, Maths, Science, History and Geography
Certificate Course	Madurai Kamaraj University	March 1993	62.5%	Gandhian Thoughts
ASNT Level II Certificate Course	ASNT SIS Institute of Non Destructive Testing Chennai	87.2%	February 2009	NDT (Ultrasonic Testing)

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9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Associate Dean	Students Welfare National Institute of Technology, Trichy	24.07.2009	15.08.2010
NSS Program Officer	National Service Scheme National Institute of Technology, Trichy	21.08.2007	30. 06.2009
Co-ordinator for M.Sc	Co-ordinator for M.Sc (Applied Electronics), Physics Department, NIT-T	2006	2008

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Sub Warden	Girls Hostels, Mepco Schlenk Engineering College	2000	Dec 2001
Faculty advisor Photographic Club	Mepco Schlenk Engineering College	2.8.2000	31.03.2006
Editor College Bulletin,	Mepco Schlenk Engineering College, Sivakasi	2.8.2000	31.03.06

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

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13. Details of Academic Work

(i) Curriculum Development

Framed the syllabi for the following courses:

Nanoscience, Technology and applications for M.Sc, M.Tech and Ph.D

Fluid Mechanics and Characteristics of Nanofluids for Ph.D

Nanostructured materials and applications for Ph.D

(ii) Courses taught at Postgraduate and Undergraduate levels

Undergraduate level:

- Basic Physics
- Physical Sciences
- Materials Science
- Physics –I
- Physics II
- Physics Lab

Postgraduate level:

- Semiconductor Devices & applications
- Digital & Analog Circuits
- Electronics
- Mathematical Physics
- Surface NDE Techniques
- Electronics Lab
- Nanoscience, Technology and applications for M.Sc, M.Tech and Ph.D
- Fluid Mechanics and Characteristics of Nanofluids for Ph.D
- Nanostructured materials and applications for Ph.D

(iii) Projects guided at Postgraduate level

More than 40 , M.Tech (NDT) > 20 and M.Sc (Physics) > 20, M.Phil: 1

(iv) Other contribution(s)

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Magnetoelectric Polymer Nanocomposite Structures for Magnetic Field Sensing In Non Destructive Testing	DST- SCRB Fastrack Scheme for Young scientist	Oct 2014	Oct2017	Ongoing
Specific electrical conductivity of kerosene based fuels	ISRO Government of India Department of Space Liquid Propulsion systems Centre	Oct 2016	Oct 2017	Ongoing
Multiferroic Polymer Nanocomposite structures for Spintronic Memory Devices	TEQIP –I Network Research Project with NIT Calicut	2007	2008	Completed

15. Number of PhDs guided: 2

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr. T. Prabhakaran	Synthesis and Characterization of Poly (Vinylidene Fluoride) Based Magnetoelectric Polymer Nanocomposite Films	Supervisor	2014
Dr. M. Nabeel Rashin	Rheological, Thermal and Ultrasonic Studies on Magnetic And Non-Magnetic Nanofluids	Supervisor	2014

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16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.
(mentioning the role)

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
22, 23 February 2015	4 th International conference on Frontiers in nanoscience and Technology	International	Participant	Cochin University Science and Technology CUSAT	Kerala
13 February 2015	3 rd National conference on recent Trends in Material Science	National	Resource person	M.Kumarasamy College engineering	Coimbatore
3,4 March 2015	Recent Trends in Nanomaterials and Thinfilms Research	National	Resource Person	UGC sponsored, AVVM Sri Pushpam college	Tanjore
4-6 Dec 2014	National seminar & Exhibition on Non Destructive Evaluation	National	Participant	ISNT	Pune
9-11 April 2015	Advances in Materials, Manufacturing and Applications AMMA 2015	International	Chair Person for a session	MME Department NIT-T	NIT-T
July 2013	International conference on materials for Advanced Technologies	International	Paper presenter	Materials Research Society of Singapore	Singapore
2012	International conference on Materials engineering and Technology	International	Chair Person for a session & Paper presenter	World academy of Science, Engineering and Technology	Malaysia
Oct 2012	International conference on emerging advanced Nanomaterials	International	Paper presenter	Australian Institute for Bioengineering and Nanotechnology	Brisbane Australia
Jan 9 – 14, 2012	The science of Living – A program for women scientists	National	Participant	Academy of human excellence, sponsored by DST	Vadodhara Gujarath

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14 to 24, June 2011	ISTE workshop on Thermodynamics in Mechanical Engineering	National	Participant	IIT Bombay	NIT-T
February 2009	course on ASNT level II in Ultrasonic Testing	National	Participant	ASNT,	SIS Institute of Non Destructive Testing, MSME Testing Centre, Chennai
21.08.200 8 to 27.08.200 8	Induction Training Program on Instructional Design and Delivery system	National	Participant	NITTTR, Chennai	NITTTR, Chennai
15.03.200 8	Workshop on X-Ray Diffraction Analysis & Intellectual Property Rights	National	Participant	NIT-T	NIT-T
30th June to 12th July, 2008	Faculty development program on Emerging Industrial Applications of Laser	National	Participant	NIT-T	NIT-T
20.03.200 8 to 27.03.200 8	Short term course on Ultrasonics and Sonochemistry as an Emerging technology	National	Participant	NIT-T	NIT-T
25.11.200 6	Training on Instrumental methods of thermal analysis & Data Interpretation	National	Participant	NIT-T	NIT-T
16.7.2002	One Day Workshop on Helping skills	National	Participant	Mepco Schlenk Engineering College, Sivakasi	Sivakasi
August 2002	One day Workshop on Quantum Computers	National	Participant	American College, Madurai	American College, Madurai
21.5.2001 to 1.6.2001	Short term training on Intelligent Materials	National	Participant	AICTE- ISTE sponsored Pondicherry Engineering	Pondicherr y Engineerin g College

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				College	
2009	International Conference on Nanostructured Materials and Nanocomposites,	National	Participant	Institute of Macromolecular Science and engineering, Kerala, 2009	Kerala, 2009
2009	National seminar & exhibition on Non destructive Evaluation NDE 2009	National	Participant	BHEL & NIT	NIT-T
2008	National Symposium on Polymers – Prospects and challenges,	National	Participant	NIT-C	NIT-C
2007	International conference on Nanaomaterials and applications, NIT 2007	National	Participant	NIT-T	NIT-T
2007	Workshop on Laser materials processing, TEQIP, NITT, 2007	National	Participant	NIT-T	NIT-T
2005	International Conference on Nanomaterials Nano 2005,	International	Participant	Mepco Schlenk engineering College	Mepco Schlenk engineering College
2001	ISTE workshop on Effective Teaching Strategies	National	Participant	Mepco Schlenk engineering College	Mepco Schlenk engineering College
2000	One-day workshop on Physical ultrasonics, St. Joseph's College, Tiruchy, 2000	National	Participant	St. Joseph's College, Tiruchy,	St. Joseph's College, Tiruchy,
1994	National seminar on New trends in Electro chemical science Alagappa University, 1994	National	Participant	Alagappa University & CECRI	Alagappa University,

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
National Symposium on Applied Electronics, ELECTRON '07	National	23.02. 2007	Co-ordinator	NIT-T
One day Workshop on Engineering Physics WEP 2007 under Tribal Development Plan (TDP)	Local	03.11.2007	Co-ordinator	NIT-T
One day Workshop on Nanostructures and Devices	National	23.02.2008	Co-ordinator	NIT-T
NITTFEST 2010	National	19-21 March 2010	Co-ordinator	NIT-T
Faculty development program on Physics for emerging technology	National	15-19 th July 2013	Co-ordinator	NIT-T
Short Term Programme on Nanostructured Materials	National	7-8 November 2014	Co-ordinator	NIT-T

18. Invited Talks delivered

Topic	Date	Inviting Organization
Multiferroic Nanostructures	15.08.2007	Physics Association, University of California, Berkeley, California, USA
Introduction to Nanotechnology	11.09.2006	Holy Cross college, Trichy
Light	19.08.2006	Workshop for School children, NIT-T
Spectroscopy	17.12.2006	Workshop for School Teachers, NIT-T
Nanoscience, Technology and applications	14.02.2007	Government Engineering college, Salem
Nanoscience, Technology and applications- an overview	21.02.2007	Trichy Engineering college, Trichy
Polymer Nanocomposites	24.01.2008	EMT 2020, NIT-T

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Magnetolectric Multiferroic Nanocomposites Structures	03.03.2011	National seminar on Recent advancements in Materials Research Sponsored by CSIR, Scott Christian college, Nagarkovil, Tamilnadu,
1. MagneticMaterial 2. Magnetolectric Multiferroic Nanocomposite structures	19.11 2012	Resource Person for the Refresher course on Recent Trends in Condensed Matter Physics (RTCMP-2012), School of Physics, Madurai Kamaraj University, Madurai
Functional Polymer composite structures	02.11.2012	Poondy Pushpam college, Poondy
Acoustics and ultrasonics	23.08.2013	Dr.N.G.P Institute of Technology Coimbatore, 23/08/2013
Functional Polymer Nanocomposite structures	18.02.2013	Sri Venkateshwara University, Tirupathy, Andra pradesh, India, 18.02.2013
High performance Magnetic nanostructures	30.11.2014	Dongguk University, South Korea
High performance Magnetic nanostructures	26.11.2015	Ajou University, suwon, South Korea

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life member	Institute of Science & Technical Education ISTE	Membership no: LM30834
Life Member	Indian Physics Association IPA	Membership no GEN/LM/ 11931
Life member	Indian society for Non destructive testing	LM8450

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20. Academic Foreign Visits

Country	Duration of Visit	Programme
United States of America	May - August 2007	International Visiting Scholar
Malaysia	19-21 February 2012	International conference on Materials engineering and Technology
Singapore	30 th June to 5 th July 2013	International conference on materials for Advanced Technologies
Australia	22-25 October 2012	International conference on emerging advanced Nanomaterials
South Korea	22/11/2015 to 02/12/2015	Training on atomic Force Microscopy

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
M. Bindua, J. Janishaa, J. Hemalatha , G. Unnikrishnana	Molecular interactions in silicone rubber- nano hydroxyl apatite system in solution phase probed by ultrasonic technique	Journal of Molecular Liquids	221	216-223	2016	
S. Divya, T. Shakthi, J. Hemalatha	Synthesis and Ferroelectric investigations of Poly(vinylidene fluoride-co-hexafluoropropylene)-Mg(NO ₃) ₂ films	J.Appl.Poly m.Sci	133	44008-44016	2016	
T. Prabhakaran, J. Hemalatha	Combustion synthesis and characterization of cobalt ferrite nanoparticles	Ceramics International	16	30856	2016	
T. Prabhakaran, J. Hemalatha	Magnetoelectric investigations on poly(vinylidene fluoride)/NiFe ₂ O ₄ flexible films fabricated through a solution casting method	RSC Adv	6	86880-86888	2016	

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M. Nabeel Rashin, R. Govindan Kutty J.Hemalatha	Novel Coconut Oil Based Magnetite Nanofluid as an Ecofriendly Oil Spill Remover	Industrial and Engineering Chemistry Research	53	15725-15730	2014	
M. Nabeel Rashin and J. Hemalatha	A novel ultrasonic approach to determine thermal conductivity in CuO–ethylene glycol nanofluids	Journal of Molecular Liquids	197	257-262	2014	
M. Nabeel Rashin and J. Hemalatha	Magnetic and ultrasonic studies on stable cobalt ferrite magnetic nanofluid	Ultrasonics	54	834-840	2014	
T. Prabhakaran and J. Hemalatha	Flexible Films of β -Phase Poly (vinylidene fluoride)/ZnFe ₂ O ₄ Polymer Nanocomposite for Magnetoelectric Device Applications	Science of Advanced Materials	6(7)	1313-1321	2014	
T. Prabhakaran and J. Hemalatha	Chemical control on the size and properties of nano NiFe ₂ O ₄ synthesized by sol–gel autocombustion method	Ceramics International	40	3315-3324	2014	
T. Prabhakaran and J. Hemalatha	Ferroelectric and magnetic studies on unpoled Poly (vinylideneFluoride)/Fe ₃ O ₄ magnetoelectric nanocomposite structures	Mater. Chem. Phys	137	781-787	2013	
M. Nabeel Rashin, J. Hemalatha	Viscosity Studies on Novel Copper Oxide–Coconut Oil Nanofluid	Exp. herm. Fluid Sci	48	67-72	2013	
K. Geethalakshmi, T. Prabhakaran and J. Hemalatha	Dielectric Studies on Nano Zirconium Dioxide Synthesized through Co-Precipitation Process	I.J. Eng. Appl. Sci.	6	212-215	2012	
M. Nabeel Rashin, J. Hemalatha	Acoustic Study on the Interactions of Coconut Oil Based Copper Oxide Nanofluid	I. J. Eng. Appl. Sci.	6	216-220	2012	
T. Prabhakaran and J. Hemalatha	Negative giant magnetoresistance effect in	Smart Mater.	21	085012	2012	

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	single layered superparamagnetic polymer nanocomposite structures of poly (vinyl alcohol) – polyaniline/ bismuth ferrite	Struct.				
M . Nabeel Rashin, J. Hemalatha	Magnetic and Ultrasonic Investigations on Magnetite Nanofluids	Ultrasonics	52	1024-1029	2012	
T. Prabhakaran, J. Hemalatha	Combustion synthesis and characterization of cobalt ferrite nanoparticles	Journal of Alloys and Compounds	509	7171-7077	2011	
J. Hemalatha , T. Prabhakaran, R. Pratibha Nalini	A comparative study on particle–fluid interactions in micro and nanofluids of aluminium oxide	Micr ofluidics & Nanofluidic s	10	263-270	2011	
T. Prabhakaran and J. Hemalatha	Combustion Synthesis And Characterization of Highly Crystalline Single Phase Nickel Ferrite Nanoparticles	J. Alloy.Comp	509	7071-7077	2011	
J. Hemalatha	A Review of: The Physics of Solar Cells	Material and Manufacturi ng Processes	23(7)	735-736	2008	
T. Prabhakaran and J. Hemalatha	Synthesis and Characterization of Magnetolectric Polymer Nanocomposites	J. Polym. Sci Part B: Polym. Phys.,	46	2418-22.3	2008	
J. Hemalatha	A Review of : Nanofluids science and Technology	Materials and manufacturi ng processes		397	2008	
S. Kalyanasundaram J. Hemalatha and B. Sundaresan	Acoustical method of finding the interaction parameter for Polymer -	J. Polym. Mater	18	323-328	2001	

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	salt solutions					
S. Kalyanasundaram J. Hemalatha and B. Sundaresan	Ultrasonic Study on hydration of PEG using Shiio model	J. Polym. Mater	19	211-216	2001	
S. Kalyanasundaram, B. Sundaresan and J. Hemalatha	Solvation Study of Polymer by Ultrasonic Method	J. Polym. Mater.	17	155-163	2000	
S.Kalyanasundaram, B. Sundaresan and J. Hemalatha	Study on the viscosity of Polymer Solutions	J. Polym. Mater	17	91-96	2000	
S. Kalyanasundaram J. Hemalatha and B. Sundaresan	Molecular interaction studies on polymer and polymer-electrolyte solutions using thermoacoustical parameters	J. Polym. Mater	17	357-362	2000	
S. Kalayanasundaram B. Sundaresan and J. Hemalatha	, Determination of interaction parameter in aqueous Poly(vinyl pyrrolidone) solution	Bull.Electro chem	15	501-503	1999	
S. Kalyanasundaram and J. Hemalatha	Determination of molecular weight of polymer by ultrasonic method	Bull.Electro chem	15	492-496	1999	
S. Kalayanasundaram J. Hemalatha and B. Sundaresan	Acoustical and Optical investigations on Poly (vinyl chloride) in nitrobenzene,	Acustica - Acta Acustica	84	1-4	1998	
S. Kalayanasundaram J. Hemalatha	Ultrasonic Studies on PVC in Chlorobenzene	J. Polym. Mater.,	14	285-289	1997	
S. Kalayanasundaram J. Hemalatha and B. Sundaresan	Molecular interaction studies on Poly (vinyl chloride) in nitrobenzene by optical method	J. Polym. Mater.,	14	269-272.	1997	

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(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
S. Divya, J. Hemalatha	Structural and Electrical properties of P(VDF-HFP)/ZnFe ₂ O ₄ nanocomposites	ICTAM-AMF10		Ferroelectrics	Delhi University, New Delhi.	2016
X. Helan Flora, Hasina and J.Hemalatha	Synthesis and characterisation of PMMA: Polymer nanocomposite films for optical applications	COCHIN NANO – 2016	63	Nanotechnology	Cochin	2016
P.Durga Prasad, J.Hemalatha	Synthesis and characterisation of PVDF polymer fibers	COCHIN NANO – 2016	183	Nanotechnology	Cochin	2016
S. Divya, J. Hemalatha	Preparation and Characterization of PVP-PVA –ZnO Blend Polymer Nano Composite Films	DAE SSPS		Solid state physics symposium	Amity University, Noida	2015
K. Anu, J. Hemalatha	Viscosity studies of water based magnetite nanofluids	DAE SSPS		Solid state physics symposium	Amity University, Noida	2015
S.Divya, J. Hemalatha	Preparation and characterization of spin coated PVDF/PMMA Blend Films	ICAFM 2014		Functional Materials	Trivandrum, Kerala	2014
T.Prabhakaran, S.Divya, J. Hemalatha	Optimization of parameters for the fabrication of ferroelectric PVDF flexible films	EMCA 2014	93	Emerging Materials	Kolkatta	2014
R. Govindan Kutty, M. Nabeel Rashin, <u>K.Anu</u> and J. Hemalatha	Comparative Study on the Rheological Behaviors of Coconut Oil Based Ferrofluids	EMCA 2014	120	Emerging Materials	Kolkatta	2014
Nabeel Rashin and J. Hemalatha	Synthesis and Acoustical Studies on Cobalt Ferrite Nanofluid	ICMF-13		Nanofluids	NPL, New Delhi	2013
M. Nabeel Rashin, J. Hemalatha	Acoustical studies on the interaction of copper oxide - Ethylene glycol nanofluid	Advanced Nanomaterials and Nanotechnology	225	Nanomaterials and nanotechnology	Newyork	2013

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M. Nabeel Rashin and J. Hemalatha	Experimental Investigation On Viscometric Parameters Of Coconut Oil Based Copper Oxide Nanofluid	ICMAT 2013		Nanofluids	Suntec, Singapore	2013
T. Prabhakaran and J. Hemalatha	The role of CoFe ₂ O ₄ nanoparticles on Magnetolectric Properties of Functional Poly (vinylidene fluoride)-CoFe ₂ O ₄ Polymer Nanocomposite films	ICMAT 2013		Nanocomposites	Suntec, Singapore	2013
M. Nabeel Rashin and J. Hemalatha	Ultrasonic Studies on Molecular Interactions in Aqueous Magnetic Nanofluid	ICONSAT 2012		Ultrasonics	Hydrabad	2012
T. Prabhakaran and J. Hemalatha	Magneto resistance Investigations on Flexible films of Magnetolectric Multiferroic PVDF/NiFe ₂ O ₄ Polymer Nanocomposite	ICONSAT 2012		Polymers	Hydrabad	2012
T. Prabhakaran and J. Hemalatha	Synthesis and Characterization of Flexible Polymer Nanocomposite Films of PVDF/ZnFe ₂ O ₄ for Magnetolectric Device Applications	ICEAN 2012		Nanocomposites	The university of Queensland, Australia	2012
M. Nabeel Rashin and J. Hemalatha	Acoustic Study On The Interactions Of Coconut Oil Based Copper Oxide Nanofluid	ICMET 2012		Nanofluids	Kuala Lumpur	2012
K. Geethalakshmi, T. Prabhakaran and J. Hemalatha	Dielectric Studies On Nano Zirconium Dioxide Synthesized Through Co-Precipitation Process	ICMET 2012		Nanocomposites	Kuala Lumpur	2012
T. Prabhakaran and J. Hemalatha	Highly Flexible Poly (vinylidene fluoride)/Bismuth Iron oxide Multiferroic Polymer Nanocomposites	DAE SSPS		Solid state physics symposium	SRM University, Tamilnadu.	2011
M. Nabeel Rashin and J. Hemalatha	Acoustical Studies on the Interaction of Copper	ICANN20 11		Nanofluids	Guwahati	2011

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	Oxide-Ethylene Glycol Nanofluid					
T. Prabhakaran and J. Hemalatha	Structural, Magnetic and Magneto resistance Investigations on Functional PVDF/Fe ₃ O ₄ Polymer nanocomposite films	Chemistry and Physics of Materials		Polymers	JNCASR, Bangalore.	2011
T. Prabhakaran and J. Hemalatha	Pyroelectric Properties of Polyvinylidene fluoride/ NiFe ₂ O ₄ Polymer Nanocomposite	Functional Polymers		Polymers	NIT, Calicut, Kerala	2011
M. Nabeel Rashin, R. Pratibha Nalini and J. Hemalatha	Viscometric Investigations on the Particle-Fluid Interactions of Copper oxide Nanofluids international Conference On Functional Polymers	Functional Polymers		Nanofluids	NIT, Calicut, Kerala	2011
M. Nabeel Rashin, J. Hemalatha , R. Pratibha Nalini and A.V. Ramya	Ultrasonic Studies and Microchannel Flow Behavior of Copper Oxide Nanofluid	DAE SSPS		Solid state physics symposium	Manipal University, Manipal, Karnataka	2010
T. Prabhakaran and J. Hemalatha	Ferroelectric Studies On Poly (vinylidene fluoride)/NiFe ₂ O ₄ Polymer Nanocomposite Structures	DAE SSPS		Solid state physics symposium	Manipal University, Manipal, Karnataka	2010
T. Prabhakaran and J. Hemalatha	Ferroelectric and magnetic properties of β -phase PVDF/Fe ₃ O ₄ Polymer Nanocomposite Structures	ICMST-2010		Multiferroics	IIST, Trivandrum, Kerala	2010
T. Prabhakaran, J. Hemalatha	Fabrication of Polymer Nanocomposite Structures by Embedding PAni-BFO Composite Nanoparticles in PVA Matrix	DAE-SSPS		Solid State Physics symposium	Maharaja Sayajirao University of Baroda, Vadodara	2009
K. Indumathi U.C. Nithiya and J. Hemalatha	Molecular Interaction and miscibility studies of PVP based polymer blends	Engineering Materials and Technology		Polymers	Tamilnadu	2008
X. Helen Flora, T.	Synthesis and	Engineering		Materials &	Tamilnadu	2008

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Prabhakaran, B. Sundaresan and J. Hemalatha	Characterization of nanocomposite polymer electrolytes	g Materials and Technologies for India – 2020		Technology		
X. Helen Flora, T. Prabhakaran and J. Hemalatha	Synthesis of Nanosized Magnetolectric Multiferroic Material, International Conference on Materials Science Research and Nanotechnology	ICMSRN 2008	226	Multiferroics	Mother Teresa women's university, Kodaikanal	2008
S. Deebhika, I. Joyal Roopavathi, K. Kulasekarapandian, A.Arulsankar, K. Vithya, J. Hemalatha and B. Sundaresan	Preparation and Characterization of nanocomposite polymer electrolytes based on poly methyl methacrylate	Smart materials Structures and systems	70	Smart materials	IISC, Bangalore	2008
Vivek Kumar Pilania and J. Hemalatha	Polymer Based Multiferroic NanoComposites For Spintronic Device Applications	Smart Materials	69	Smart materials	IISC, Bangalore	2008
M. K. suresh, V. R. Ravindran, S. Vibin Kumar and J. Hemalatha	Ultrasonic Imaging of Internal Features in an object using Airborne Probe Monitoring system	Recent Trends in Optoelectronic and Laser Technology		Laser Technology		2007
Steven P. Crane, J. Seidel, C. Bihler, P. Shafer, Q. He, J. Hemalatha , S. T. B. Goennenwein, M. S. Brandt and R. Ramesh	Leakage Mechanisms and Ferromagnetic Resonance Analyses in Thin-Film Multifunctional BiFeO ₃ —NiFe ₂ O ₄ Nanostructures	Materials Research Society Fall Symposium		Materials Research	Boston	2007
S. Kalyanasundaram, B. Sundaresan and J. Hemalatha	Determination of compressibility and volume of bound water	Recent Trends in materials Science	11	Material Science	Alagappa University, Karaikudi	1999
S.Kalyanasundaram, J. Hemalatha and B.Sundaresan	Estimation of Thermo Acoustical parameters for polymer and Polymer-Electrolyte solutions	Recent Trends in materials Science	10	Material Science	Alagappa University, Karaikudi	1999
S. Kalyanasundaram	Hydration study of	Recent	24	Chemical	Annamalai	1999

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and J. Hemalatha	polymer solutions-Shiio model	Trends in Chemical Physics		Physics	University	
S. Kalyanasundaram, J. Hemalatha and B.Sundaresan	Determination of intrinsic viscosity by solvation study	Recent Trends in Chemical Physics	27	Chemical Physics	Annamalai University	1999
S. Kalyanasundaram, X. Helan Flora, B. Sundaresan and J. Hemalatha	Estimation of Polymer-Solvent interaction parameter in ternary solution using Ultrasonic Method	Symposium on Ultrasonics		Ultrasonics	Pondicherry University	1998
S. Kalyanasundaram, B. Sundaresan and J. Hemalatha	Acoustic Method of finding the molecular weight of Polymer	DAE SSPS Symposium		Solid state physics	Kurukshetra university	1998
S.Kalyanasundaram J. Hemalatha and B. Sundaresan	Hydration studies in Aqueous Polymer-Salt systems through adiabatic compressibility	Polymer Research		Polymer Research	R&D Organisation, Calcutta	1998
S.Kalyanasundaram and J. Hemalatha	Determination of molecular weight of polymers by ultrasonic Method	Adv.In Elec.Chem .Sci and Tech		Science and Technology	Chennai	1998
S.Kalyanasundaram and J. Hemalatha	Determination of interaction parameter in aqueous poly(vinyl pyrrolidone) solution	Adv.In Elec.Chem .Sci and Tech		Science and Technology	Chennai	1998
S. Kalyanasundaram, J. Hemalatha , and B. Sundaresan	Study of Hydration through Adiabatic Compressibility in Polymer Solutions	Emer.Trend.Elect.Chem &Eighth Natl. Convention. Elec. Chem.		Science and Technology	CECRI, Karaikudi	1998
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